Bridge Factors Factual Report Attachment 21 – BPA Cracks Report No. 1 - Email from Mr. Jose Morales of BPA to Mr. Rodrigo Isaza of MCM dated February 13, 2018

Miami, FL

HWY18MH009

(9 pages)

Rafael Urdaneta BPA Report #1

From: Jose Morales
Sent: Tuesday, February 13, 2018 9:50 AM
To: Rodrigo Isaza [redacted]
Cc: [redacted] Ernie Hernandez [redacted] Pedro Cortes; Rafael Urdaneta; [redacted] Carlos Chapman; Maria Christina Acosta
Subject: Main Span 1 - Cracks Inspection on Truss Members
Attachments: FIU PEDESTRIAN BRIDGE CRACK INSPECTION.pdf

Rodrigo,

Please refer to the self-explanatory report attached regarding some cracks seen on truss members of Span 1.

Forward to the EOR for their information. We will monitor these or any other developing cracks on the bridge, but we would like to the EOR to provide a response and determine if these were expected during the bridge stressing.

Thanks,

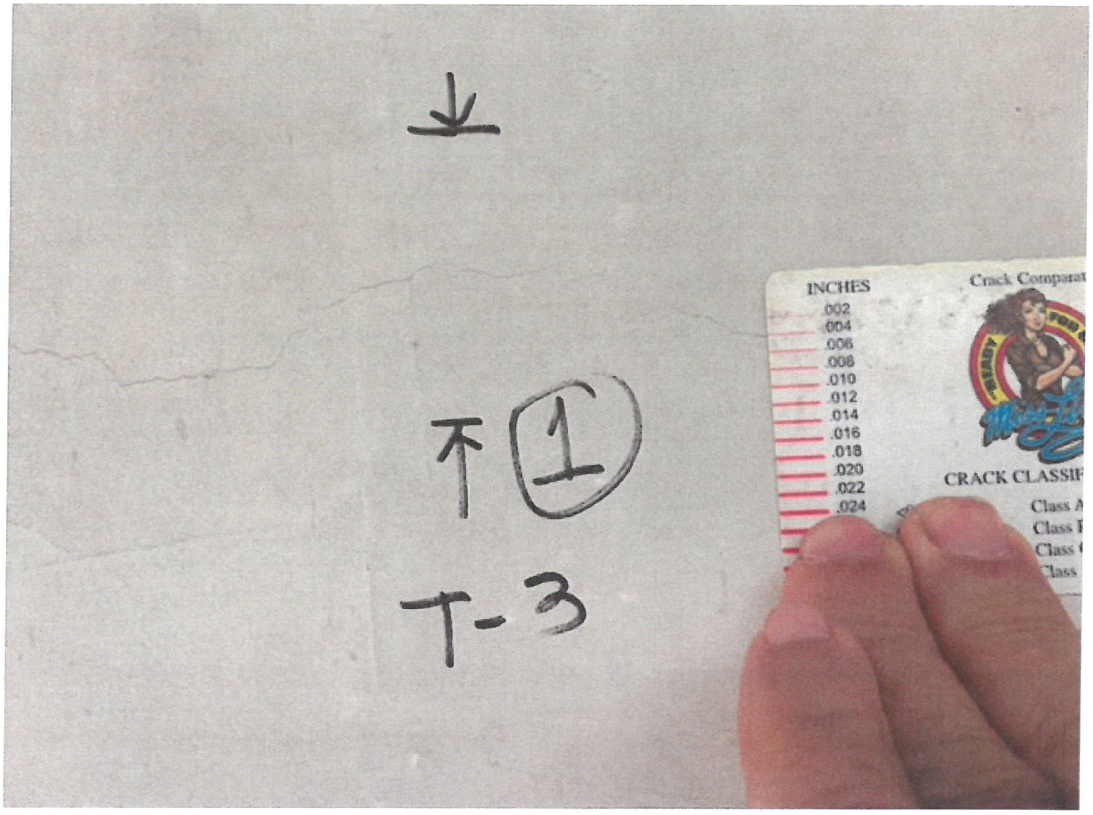
Jose E. Morales, P.E. | CEI Dept. Manager
Bolton Perez & Associates
Consulting Engineers
7205 Corporate Center Drive, Suite 201
Miami, Florida 33126
[redacted]

FIU Pedestrian Bridge / BT-904
Crack Inspection Report

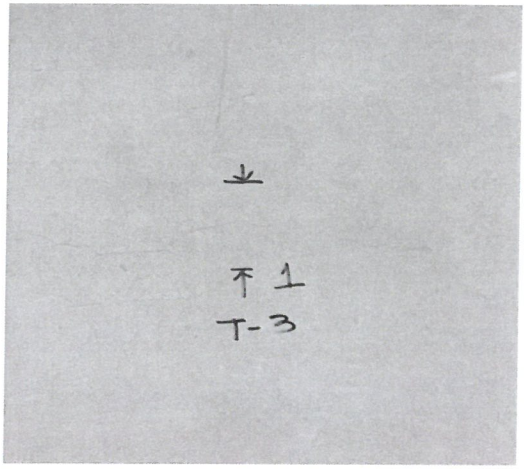
Bolton Perez & Associates, serving as the CEI for the project performed a visual inspection of main span truss members on 02-06-18 after PT bars tendons No 2 and No 11 were stressed. Cracks were found at moment of the inspection. These have been identified per truss member and a consecutive number within the member. The intent is to monitor these cracks after the bridge is fully tensioned and the main span is at the final location.

The members showing these small cracks are truss members that share the same blister at the canopy of the already stressed members No 2 (stressed 1/30/18) & No 11 (stressed 1/29/18) . We believe, this first stressing operation has temporarily created tension on members No 3 & No 10; thus, creating cross sectional cracks transferring the tension loads to the steel on these members. No other truss members within span 1 show any cracks similar to these shown on members No 3 & No 10.

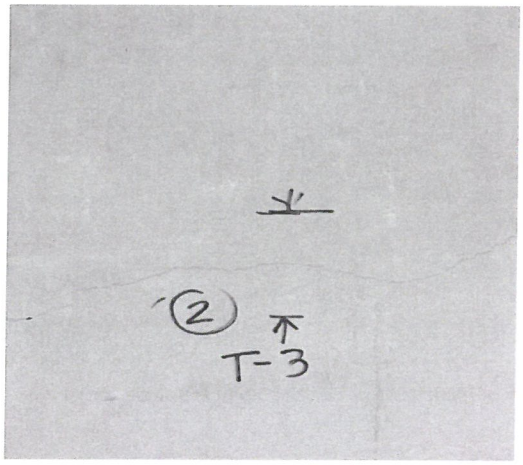
The intent of the report is to inform Design Build Team of these cracks. It is the Design Build responsibility to assess them and determine if these cracks were expected while tensioning and monitor them accordingly if deemed necessary.



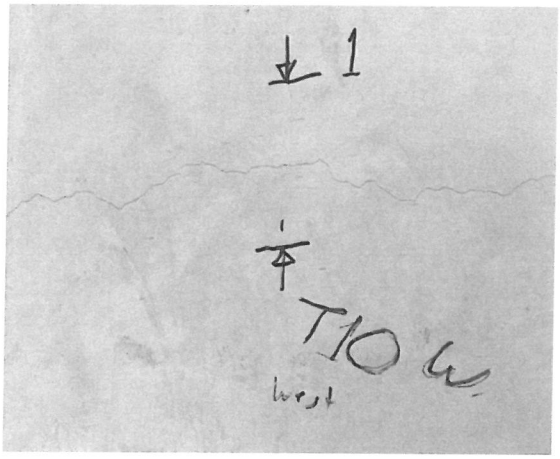
1. **Crack T3-1**
   Location: Truss member No.3, approximately 70 inches measured from the bottom of the member, extended around the cross section.
   Classification: Crack type A (<0.007 inches).
   Measured: 0.04 inches.



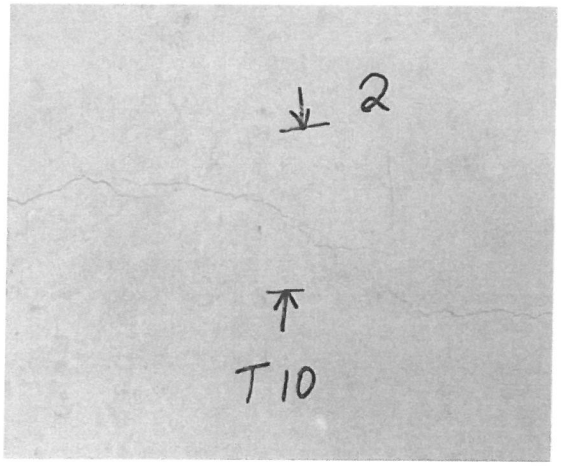
2. **Crack T3-2**
   Location: Truss member No.3, approximately 77 inches measured from the bottom of the member, extended around the cross section.
   Classification: Crack type A (<0.007 inches).
   Measured: 0.04/006 inches.



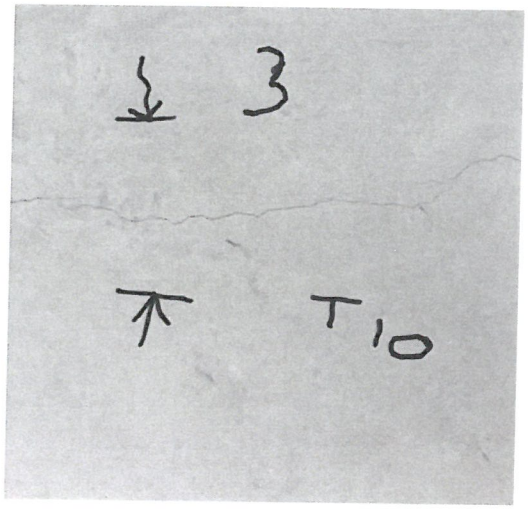
3. **Crack T10-1**
   Location: Truss member No.10, approximately 119 inches measured from the bottom of the member, extended around the cross section.
   Classification: Crack type A (<0.007 inches).
   Measured: 0.04 inches.



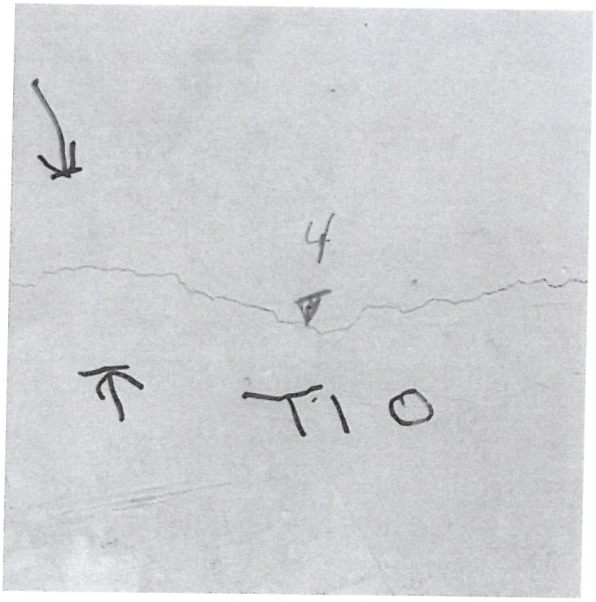
4. **Crack T10-2**
   Location: Truss member No.10, approximately 126 inches measured from the bottom of the member, extended around the cross section.
   Classification: Crack type A (<0.007 inches).
   Measured: 0.04 inches.



5. **Crack T10-3**
   Location: Truss member No.10, approximately 150 inches measured from the bottom of the member, extended around the cross section.
   Classification: Crack type A (<0.007 inches).
   Measured: 0.04 inches.



6. **Crack T10-4**
   Location: Truss member No.10, approximately 168 inches measured from the bottom of the member, extended around the cross section.
   Classification: Crack type A (<0.007 inches).
   Measured: 0.04 inches.



Rafael Urdaneta RESPONSE FROM MCM/FIG

From: Rodrigo Isaza [redacted]
Sent: Saturday, February 17, 2018 4:07 PM
To: Jose Morales
Cc: 'Alberto Delgado'; Rafael Urdaneta; Maria Christina Acosta; [redacted] Carlos Chapman; Ernie Hernandez; Pedro Cortes; 'com-inbound-fiu-db-pedestrian-bridge@procoretech.com'
Subject: FW: Main Span 1 - Cracks Inspection on Truss Members

Jose,
As discussed during our progress meeting of yesterday, the EOR has reviewed the crack report provided by the CEI dated 13Feb18. Please reference below for your reference.
Thank you

RODRIGO ISAZA | Sr. Project Manager | [redacted]
MCM | 6201 SW 70th St., 2nd Floor, Miami, FL 33143 | www.mcm-us.com.

From: Feliciano, Manuel [redacted]
Sent: Friday, February 16, 2018 10:05 AM
To: Rodrigo Isaza; Hango, Erika N.
Cc: Dempsey, Dwight; Ernie Hernandez; Pedro Cortes; 'com-inbound-fiu-db-pedestrian-bridge@procoretech.com'; Pate, Denney
Subject: RE: Main Span 1 - Cracks Inspection on Truss Members

Rodrigo,

FIGG received the Crack Inspection Report prepared by CEI on February 13, 2018. Subsequent to receiving the Report, MCM sent us an e-mail clarifying the location of the reported observations on February 15, 2018. FIGG has reviewed the Report and offers the following comments for your consideration:

- CEI's observations of the conditions of members 3 and 10 after stressing members 2 and 11 are temporary in nature. The current condition will change as soon as the stressing of the PT bars in members 3 and 10 is performed.
- The release of the canopy falsework will improve the state of stress in members 3 and 10.
- As mentioned in CEI's Report, the observations regarding the current condition of members 3 and 10 are the results of an intermediate step in the stressing operation.
- It is recommended that the truss members not be marked with a marker/sharpie as this will lead to discoloration of the concrete.

Please let us know if you have any other questions or comments.

Thank you,

Manuel Feliciano, P.E.
FIGG
Regional Bridge Engineer
[redacted]

[redacted]

From: Rodrigo Isaza [redacted]
Sent: Thursday, February 15, 2018 7:29 AM
To: Hango, Erika N. [redacted]
Cc: Dempsey, Dwight [redacted]; Feliciano, Manuel [redacted]; Ernie Hernandez [redacted] Pedro Cortes [redacted]; 'com-inbound-fiu-db-pedestrian-bridge@procoretech.com' <com-inbound-fiu-db-pedestrian-bridge@procoretech.com>
Subject: FW: Main Span 1 - Cracks Inspection on Truss Members

Erika,
We have reviewed the CEI's report and all cracks identified are on the Westside of the span. Also, and for clarification, these loop around the truss.
Thank you

RODRIGO ISAZA | Sr. Project Manager | [redacted]
MCM | 6201 SW 70th St., 2nd Floor, Miami, FL 33143 | www.mcm-us.com.
Please consider the environment before printing. A reminder from MCM, Building Excellence

From: Rodrigo Isaza
Sent: Tuesday, February 13, 2018 9:56 AM
To: 'Hango, Erika N.'
Cc: 'Dempsey, Dwight'; Feliciano, Manuel; Ernie Hernandez; Pedro Cortes; 'com-inbound-fiu-db-pedestrian-bridge@procoretech.com'
Subject: FW: Main Span 1 - Cracks Inspection on Truss Members

Erika,
As discussed last week, attached please find a crack inspection report issued by the CEI following the ongoing stressing operations.

Please review and comment as deem applicable and/or confirm these were anticipated as part of this phase of construction.

Thank you

RODRIGO ISAZA | Sr. Project Manager [redacted]
MCM | 6201 SW 70th St., 2nd Floor, Miami, FL 33143 | www.mcm-us.com.
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